EPA Region 10 Deemed Releasable



Unit

90COGEN - COGEN Unit

FLOC

90NAH2004-20-FLOC - AMMONIA LIQUID TO VAPORIZER

Equipment

90NAH2004-20 - AMMONIA LIQUID TO VAPORIZER

Legal Reg

Reg Agency

Shell Reg Number

ECH Description

EXTERNAL

Status

FINAL APPROVAL

Details for 90NAH2004-20

Equipment Group

PIPE

Resp Inspector

RN

Serial number

Resp Insp Full Name

Nielson, Robert SOPUS-

DMW/464

Manufacturer

Last Approved By

Nielson, Robert SOPUS-

DMW/464

Current Event

INSPECTION RECOMMENDATION

Condition Date

19/Aug/2015

Schedules Created

Schedule

Schedule date

Description

INSP00233247

19/Aug/2020

EXTERNAL

Schedules Credited

Schedule

Schedule date

Description

INSP00229470

23/Sep/2015

EXTERNAL

Inspection Data

Component

Damage Mechanism

Failure Mode

Template

GENERAL

No Damage Mechanism

No Failure Mode

EXTERNAL INSPECTION

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BUSINESS CONFIDENTIAL INFORMATION

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Anacortes, Washington



Туре	Category	Spec name	Qualifier	Value	UoM
ACTIONS	PIPE	VISUAL		YES	
PERFORMED					
ACTIONS	SUPPORTS/HANG	VISUAL		YES	
PERFORMED	ERS				
ACTIONS	VALVES	VISUAL		YES	
PERFORMED					

Narrative ECH

A visual external inspection was performed on this piping system using Shell PSR visual onstream external piping inspection checklist as a guide. This pipe was insulated with no major damage to the jacket. Hangers and pipe shoes were in place and in goo d functional condition. All criteria was met with no unserviceable conditions or repair need at this time. **ROBERT NIELSEN API# 49292**

A.1 LEAKS

CLAMPS	N/A
BONNETS	N/A
	BONNETS

None **PROCESS** None STEAM TRACING

A.2 MISALI GNMENT

•	EXPANSION JOINT MISALIGNMENT	N/A
	PIPING MISALIGNMENT/RESTRICTED MOVEMENT	N/A

A.3 VIBRATION

•	EXCESSIVE OVERHUNG WEIGHT	None	
•	FLEX HOSE CONDITION	None	
•	INADEQUATE SUPPORT	Acceptable	
	LOOSE SUPPORTS CAUSING METAL WEAR	None	
	THIN, SMALL BORE, OR ALLOY PIPING	Acceptable	
•	THREADED CONNECTIONS	Acceptable	

A.4 S	SUPPORTS			
•	BOTTOMED OUT SPRINGS		N/A	
	BRACE DISTORTION/BREAKAGE	Accep	table	
	COUNTE RBALANCE CONDITION	N/A		ICINEDO COM
•	HANGER DISTORTION/BREAKAGE		Acceptable	JSINESS CONFIDENTIAL
•	LOOSE BRACKETS		None	INFORMATION
	SHOES/STANDS CONDITION		Acceptable	

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SLIDE PLATES/ROLLERS Acceptable
 SUPPORT CORROSION Acceptable

INTERNAL CORROSION AT DUMMY LEG TO PIPE ID (REQUEST RT IF CORROSION

Acceptable

OBSERVED)

ADD CML AT ALL DUMMY SUPPORT TO PIPE IDs

N/A

A.5 CORROSION

BOLTING SUPPORT POINTS UNDER CLAMPS
BOLTING/GASKETS CORRODED?
COATING/PAINTING DETERIO RATION
OXIDATION/SCALE
PITTING
None

N/A
Acceptable
Acceptable
None

SOIL TO AIR INTERFACES

N/A

A.6 INSULATION

Acceptable BANDING (BROKEN/MISSING) None **BIOLOGICAL GROWTH** Acceptable BULGING Acceptable DAMAGE/PEN ETRATIONS Acceptable **INSULATION INTERFACES** Acceptable MISSING JACKETING/INSULATION Acceptable SEALING DETERIORATED/MISSING Acceptable WATER/MOISTURE PRESENT?

Inspection Scope - Plan

Equipment Strategy

Attachments

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USINESS CONFIDENTIAL INFORMATION

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Shell Anacortes Retirlery OO \(\)
Anacortes, Washington